

DIVISION OF GENETICS
INDIAN AGRICULTURAL RESEARCH INSTITUTENEW DELHI-12

No. GD/SP/40 -45 /2010-11 / 6197-6218

Dated: 7.9.10

M/s_____

Dear Sir,

1. Sealed Quotations for the supply of articles mentioned below are invited from the manufacturer/ authorized dealer so as to reach this office latest by...**28.9.2010.....at 1.00PM.....** please note that: Quotation for ðas mentioned belowö along with the due date should be clearly indicated on the sealed cover.
2. In the event of quoting for more than one item mentioned below, separate quotations for each item should be sent.
3. Quotations received after the due date will not be considered.
4. Prices should be quoted on FOB, CIF/ FOR destination at the Division of Genetics, IARI.
5. Please indicate the specific make or brand the prices of which are being quoted and so enclose the important voucher of the same along with valid authorization certificate from the principal/manufacturer of the equipment.
6. In event of your rates being accepted, the articles will have to be supplied within **21 days** of the issue of the order failing which a penalty @ 2% per week up to maximum of 10% shall be imposed.
7. Quoted rates will remain valid for six months from the date of opening of the quotation.
8. Quotations unsealed or having over-writing and cutting without proper attestation signatures will not be considered.
9. Please attach copy of Sales Tax Regd. No. and Income Tax PAN of your firm failing which your quotation will not be entertained.
10. Both technical and financial bids may be submitted separately.
11. The bidder has to deposit the under mentioned EMD in favour of Director, IARI New Delhi-12 in form of an account payee demand draft from a commercial bank refundable to unsuccessful bidders.
12. EMD will be returned to the successful bidders on the deposit of 10% performance security in form of an account payee demand draft, fixed deposit receipt or bank guarantee from a commercial Bank.
13. In case the price quoted in INR for the equipment to be imported by the authorized supplier, the following conditions will be governed:
 1. Basic price of the equipment, Custom Duty, freight, Insurance and taxes etc. as applicable should be shown separately.
 2. The supply order shall be placed with the Principal supplier/manufacturer at abroad in order to avail the custom duty exemption.
 3. The payment relating to foreign supplier shall be arranged by the Indian supplier and it has to be ensured that the equipment is supplied within the stipulated time as indicated in the supply order. Delivery of the equipment shall be made direct from the air port to Genetics Division on the same date of released from the customs. All other expenses to be borne by the concerned Indian supplier quoting the price bid. Final payment will be made to Indian supplier after installation of equipment and deposit of performance security.
 4. On such arrangement no liability what so ever on account of demurrage charges etc shall be entertained by the IARI

15. The quantity of the quotation is always subject to change, and the competent authority has absolute right to accept or reject any or all quotation(s) in part or full, without assigning any reason thereof.

16. This Institute is entitled for availing of Custom Duty Exemption in Full. Hence FOB price, whenever lower than Net price in India, may preferably be quoted.

17. In case of item, a list of users to whom you supplied this item in the past, if any, may be attached along with a copy of catalogue/complete literature of the item. Warranty clause must be given both in case of supply or repair of item/ equipment otherwise your quotation will not be entertained.

List if specification attached.

S.No.	Description	Quantity	Reference	EMD
1	High throughput DNA isolation unit	one	GD/SP/40/2010-11	15000.00
2	Deep freezer -80°C	one	GD/SP/41/2010-11	15000.00
3	PCR Machine	one	GD/SP/42/2010-11	16000.00
4	Electrophoreses unit	one	GD/SP/43/2010-11	4000.00
5	Ample grinder	one	GD/SP/44/2010-11	6000.00
6	Gel documentation	one	GD/SP/45/2010-11	8000.00

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Sr. Admn. Officer

Copy: forwarded to In charge USI for web notification with the information that soft copy has been transmitted at your e-mail address and web master.

Specifications:

1. Deep Freezer (-80C)

1. Microprocessor based system with digital display.
2. Capacity: minimum 700 lt. with single vertical door.
3. Lowest attainable temp. -80°C at ambient temp.
4. Two compressors each power efficient (low power consumption) capacity upto 1hp.
5. Lockable door with at least four compartments with independent door hinges
6. Cabinet insulation of at least 100mm (PUF) with urethane insulation
7. Noise level less than 50 DBA.
8. Inner liner material made of stainless steel and cabinet of varnish steel.
9. HCFC/CFC free refrigerant.
10. Advanced Battery backup digital display for 48 hours backup and for alarms and temperature in the event of power cut.
11. Visual and acoustic alarm, power failure alarm, high/low temperature alarm, probe failure alarm and Instrument failure alarm.
12. Should provide a compatible voltage stabilizer
13. At least two years comprehensive warrantee with one year additional service warranty.

2. PCR:

1. Facility of gradient reaction.
2. Blocks of 2 x 384 well tubes and capable to hold un-skirted, semi-skirted and full-skirted PCR plates.
3. Option to have multiple peripheral PCR units
4. Temperature range of + 5°C to +95°C with a accuracy of $\pm 0.2^{\circ}\text{C}$.
5. Uniformity of $\pm 4^{\circ}\text{C}$ temperature well to well within 8-12 seconds of arrival at 90°C.
6. Gradient range of + 30°C to +100°C with max. ramp rate of 2.5-3.5°C/sec.
7. Adjustable heated lid.
8. Easy PCR programming facility.
9. Integrated compact control panel with digital display screen.
10. Minimum memory of at least 500 programmes.
11. Facility of interchangeable blocks of 96 and 48 well tubes.
12. PCR should be licensed.
13. User manual of all instruments.
14. Branded 2 KVA online UPS with at least 30 min power backup.
15. At least two years comprehensive warrantee with one year additional service warranty.

3. Electrophoresis system with power pack:

1. Horizontal gel unit with removable casting tray
2. Gel size 25x30cm
3. Facility of 12 comb slots
4. Casting gates with integral silicon deals
5. Coloured loading strips
6. UV transparent gel tray
7. Gel casting clamp
8. 12x26 tooth comb with 1mm thick
9. Multichannel compatible
10. Power cord & safety lid
11. Compatible powerpack having 400V, 300mA and 50 Watt
12. Minimum one year warranty

4. High throughput DNA isolation facility with accessories:

1. Workstation for automated isolation/ purification of nucleic acids from plant tissue samples using 96 deep well plate with vacuum membrane filter based technology.
2. Open system with a facility to support non-kit based DNA isolation protocols.
3. Facility of concentration normalization; reagent transfer from reservoirs; serial dilution; low volume assay set-up (like PCR & RT-PCR using 96 and 384 well plates, pooling of samples from plates to tubes)
4. Peltier based heating and cooling of samples or reagents.
5. Pipetting range from 1-1,000 μ l.
6. Facility of mixing reagents with user defined volumes.
7. Pipetting tools with 8 and 96 channel heads.
8. Ability to use filter and non-filter tips with a facility of discarding tips as per the need.
9. Separate container for tip disposal.
10. Completely contained housing including door safety mechanism.
11. User friendly software with pre-loaded labware files.
12. 6-10 position deck and all routine pipetting capability.
13. Programming of pipetting using external PC.
14. Cooling centrifuge unit with a facility of 96 well micro-plate rotor having minimum rpm of 5500.
15. Branded compatible online UPS with at least 30 min power backup.
16. At least two years comprehensive warrantee with one year additional service warranty.

5. Sample grinder:

1. Micro-switch based system with high grinding speed (10,000 rpm), 4g per sec
2. Adjustable particle size
3. Low noise level (75d)
4. No thermal degradation of samples
5. Suitable for grinding of maize samples with 10-15% moisture content and fat content up to 20%
6. Complete recovery of the samples
7. Iron free inner grinder with very low cross contamination
8. Should be supplied with (i) six sample bottles (125ml) with snap on lid (2), (ii) screens 0.5 and 1.0mm, (iii) allen keys 4 and 6mm, (iv) seal for grinding chamber, (v) paper bag for dust collection, and (vi) seal for sample bottle
9. 200-230V, 50Hz
10. One year comprehensive warrantee with one year additional service warranty.

6.SPECIFICATIONS FOR GEL DOCUMENTATION

- GLP compliant Fully Automated Microprocessor based computer controlled Gel Documentation & Image analysis system.
- Capture & Analyze images like; Gels stained with Ethidium Bromide, Silver Stain & Coomassie Blue; TLC plates, GFP plates, AutoRads, 2-D Spot blots; View tissues, slides and films; Capture and count Colonies (colored colonies)
- **Filter** for visualization of stains like: Florescent stains (EtBr), coomassie blue, pink and silver stains, SYPRO Ruby, ProQ Diamond
- High resolution scientific grade **Cooled CCD camera with effective 4.0 or more mega pixels with True 16-bit Cooled Camera for noise free images**, equipped with motorized zoom lens 8-48mm; +2 diopetre Close-up lens and adapter for 8-48mm zoom lens with facility for **Focus indication**
- The camera should be equipped with latest high speed USB port for faster downloads
- Fully Microprocessor controlled darkroom with **electromagnetic door latch** and **electronic locking, Automatic UV Shut off**
- **UV lighting System employing RTD technology to prevent banding effect** equipped with 302 nm, 25 X 30 cm filter, and control for fully variable intensity
- **UV-to-White light converter** for viewing protein gels and for other white light applications.
- **Data Analysis Station with following Software, for analyzing and storing and printing images and uninterrupted power back up for the complete system.**
- Automatic image acquisition Software with **a tool box** to add text, lines, circles, shapes, arrow to images; **a single button** to capture a perfect image every time; **Lens Control** for operating aperture, focus and zoom position for motor driven lens.; display Feedback data is also displayed here; An **auto-exposure setting** for the computer to decide on the optimum exposure time; Automatic exposure setting via computer for optimum exposure time; **series capture** for creating a series of images over different time periods for selecting optimum image; **Lighting and Filter selection** from the Drop down list; **Neutral Fielding** to ensures perfect background on images.; **3D viewing mode; Auto focus setting; Focus indicator** for pin-pointing sharp images; **Monitor real time saturation levels** of images when in live mode to ensure accurate linear quantitative data; Image cropping; save images in SGD, TIF and BMP formats ; **Integral Image Browser** to keep track of all images in all formats. Direct link to analysis software.
- **1D Gel Analysis Software with FREE lifetime upgradation**
Automated software for analyzing 1D gels, 2D Spot blots, Egels, Multi-layer gels (multiple well lines per gel), Zyma Gels. It should have **single window for simultaneous display of all data, images, and histogram**; Automatic track, band and edge finding with manual override; **Automatic detection and correction for distorted tracks and grimaced or curved bands**; Automatic background correction (multiple methods); Molecular weight / Base pair, Rf, quantity determination; Automatic / manual marker assign; Choice of MW propagation styles including the ability to use multiple standards for smiling gel correction; **cross gel track profiling (ability to overlay track histograms from different gels)**; Integral molecular weight calibration library with manual or automatic assignments; User editing of Libraries. Full GLP reporting (gel, lane. MW, Qty, track histogram); Direct link to Excel; Save results in *.CSV format for export ; Display data in a variety of different ways (curves, bar charts, pie charts etc); Automatic Band matching; Dendrograms, Matching coefficients, Matching matrix. Other capabilities should include automatic colony counting (coloured colonies), PCR analysis, Plaque counting, Arrays; Elisa plate analysis.
- **2D Gel Analysis Software with FREE lifetime upgradation,**
Automated software for rapid analysis of 2D protein spots between samples, Synchronized zoom with intensity autoscale, Automatic and precise image warping with vector view, background correction and noise filtering, Automatic spot detection, 3 x 10MB images in eight seconds, Automatic spot matching,

Spot detection with user adjustable parameters, Spot editing and filtering, Spot normalization, pI and MW ladder calibration, Protein list assignment of spots with known identity, pI and MW, Data visualization

- **Track Database Software with FREE lifetime upgradation,**
For differential display for gene expression studies & large scale genomic fingerprinting studies, Track classification with user defined fields, Genotyping capabilities, Powerful search facility for rapid identification of unknown tracks, production of cluster analysis diagrams based on user defined parameters, VNTR table instantly calculated for any data set, Similarity matrix, Band matching to single or composite tracks, Create cluster analysis diagrams, Band match across multiple gels, Set up libraries with, classification data, Make comparative quantifications, RFLP, RAPD, Fingerprinting, VNTR analysis, Genotyping, Exporting of data to Word and Excel, Full report generation facility
- **3 USERS LICENSED COPIES OF ABOVE SOFTWARES**
- **TWO YEARS WARRANTY**